



Resilience Week 2016 Track Plan

Tuesday, August 16

Time	Resilience Models and Measures Track [Aspen] Chair: Marco Carvalho, FIT; Annarita Giani, GE; Michael Atighetchi, BBN	Avoiding Skynet— Humans Interacting with Autonomy Track [Redwood] Chairs: David Scheidt, Julie Marble, JHU APL	Resilient Infrastructure Track [Cypress] Chairs: David Alderson, NPS; Cherrie Black, INL
7:00	Registration [Atrium]		
8:00	Symposium Opening Plenary [Regency Ballroom] LtGen (ret) Hernandez, Army Cyber Institute		
8:20	Welcome and Announcements [Regency Ballroom]		
8:30	Keynote: Matt Bishop, University of California-Davis	Invited Speakers	Welcome: NSRCI Co-Chairs David Alderson and Cherrie Black Intro to CIRI: Dr. David Nicol, Univ. of Illinois – Urbana-Champaign Keynote: Bob Kolasky, Deputy Assistant Secretary for Infrastructure Protection, DHS, NPPD-IP
9:30	Invited Speakers <ul style="list-style-type: none">Greg Shannon, OSTP	Keynote: To Be Announced	CIRI Panel: Needs and Objectives for Resiliency in Critical Infrastructure <ul style="list-style-type: none">Jeff Binder, CIRI Acting DirectorMatt Coats, DHS Program Manager (tentative)CIRI External Advisory BoardChick Macal, Argonne Nat. Lab.Steve Flynn, Northeastern Univ.
10:30	Morning Break [Atrium]		
11:00	Invited Speakers <ul style="list-style-type: none">Ehab Al-Shaer, UNCCXinming Ou, USF	The Human Should be Part of the Control Loop?, Ryan Robinson, ARL	CIRI Panel: Risk Assessment <ul style="list-style-type: none">Santanu Chaudhuri, Univ. of IllinoisRyan Hruska, INLDavid Brannegan, ANLJay Kesan, University of Illinois
11:30		Resilient Autonomous Systems: Challenges and Solutions, Gerald Matthews, UCF	
12:00	Hosted Lunch with Plenary Speaker [Regency Ballroom] Dominique Luzeaux, Deputy Director of the Joint Directorate for Networks, Infrastructure and Information Systems, EMA/DIRISI		
1:30	Keynote: Osama Mohammed, Florida International University	Invited Speakers	Student Competition: Lightning Talks
2:30	Invited Speakers		
3:30	Reception and Poster Session [Atrium]		
6:00	Adjourn for Day		



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Time	Cyber Track <i>[Rosewood]</i> Chairs: Marco Carvalho, FIT; Annarita Giani, GE; Michael Atighetchi, BBN	Control Track <i>[Redwood]</i> Chairs: Frank Ferrese, NAVSEA; David Scheidt, JHUAPL	Cognitive-Communications Track <i>[Aspen]</i> Chairs: Roger Lew, UI; James Sterbenz, HU; Krishna Kant, Temple; Nathan Lau, VT	Resilient Infrastructure Track <i>[Cypress]</i> Chairs: David Alderson, NPS; Cherrie Black, INL
7:30	Registration <i>[Atrium]</i>			
8:20	Announcements <i>[Regency Ballroom]</i>			
8:30	Keynote: Trung Tran, Program Manager, DARPA <i>[Regency Ballroom]</i>			Invited Papers (CIRI) <ul style="list-style-type: none">Steve Flynn, NEUAdam Rose, USCHimanshu Grover, Univ. of WashingtonDanny Rieble, Texas TechBill King, Univ. of IllinoisSachin Shetty, Tennessee State Univ.
9:00				
	Cyber for Power Sector	Control for Power Sector	Cognitive Interface Papers	
9:30	<i>Vulnerabilities in Two-Area Automatic Generation Control Systems under Cyberattack</i> , Saroj Biswas, Temple U	<i>*Testbed-based Performance Evaluation of Attack-Resilient Control for AGC</i> , Aditya Ashok, PNNL	<i>A Graphic Form with Emergent Properties for Monitoring Renewable Generation Stations</i> , Greg Jamieson, UT	
10:00	<i>*Survivability Analysis and Recovery Support for Smart Grids</i> , Sahra Sarves, MST	<i>Improving Transmission System Resilience Using an Automation Controller and Distributed Resources</i> , Pavan Penkey, UI	<i>System-Task Analytical Framework for Monitor Assessment</i> , Nathan Lau, VT	
10:30	Morning Break <i>[Atrium]</i>			
	Cyber Deception	Control for Power Sector	Cognitive Modeling	
11:00	<i>Dynamic Application Rotation Environment for Moving Target Defense</i> , Michael Thompson, ANL	<i>Energy saving in Microgrid with Tree Configurations Using Nash Bargaining Solution</i> , Qiangguo Ren, Temple U	<i>Social Network Analysis for Assessing Research Team Collaboration and Implementation Capacity</i> , Jocelyne Helbing, UI	Invited Speaker Dr. Paolo Gardoni, NIST Center for Risk-Based Community Resilience Planning
11:30	<i>Enabling Defensive Deception in Distributed System Environments</i> , Nathaniel Soule, BBN	<i>Measurement Sensitivity Analysis of Information Embedded Power Systems using ABCD Matrices</i> , Tiffany Lakins, Drexel U	<i>State Modeling to Identify Critical Situations</i> , Steven Landry, Purdue U	
12:00	Hosted Lunch with Plenary Speaker and Honorary General Chair <i>[Regency Ballroom]</i> Massoud Amin, Director of TLI, University of Minnesota			
1:30	Keynote: Nitin Vaidya, Professor, University of Illinois Urbana-Champaign			RRAP Discussion Dan Genua, DHS Will McNamara, DHS Russ Bowman, Coast Guard Academy
2:00				



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	Asymmetric Cyber Resilience	Attack Detection/Verification	Communications Resilience	
2:30	Invited Speaker: Chris Oeman, PNNL	Detecting PLC Control Corruption via On-Device Runtime Verification, Luis Garcia, Rutgers U	Internet Resilience in Ashburn, Virginia, Michael Thompson, ANL	RRAP – Next Gen Panel Discussion Dan Genua, DHS Will McNamara, DHS Panelists: TBD Chair: Cherrie Black
3:00		Recovery after Attacks of Deception on Networked Control Systems, Kiriakos Kiriakidis, US Naval A	Evaluation of Anomaly Detection Techniques for SCADA Communication Resilience, Syed Shirazi, Lancaster U	
3:30	Afternoon Break [Atrium]			
	Cyber Operations/Defense	Disturbance Rejection	Control/Communications for the Transportation Sector	
4:00	Progressive Recovery of Interdependent Services in Enterprise Data Centers, Ibrahim El-Shekeil, Temple U	An H-infinity Approach to Stealth-resilient Control Design, Shaunak Bopardikar, UTRC	Vulnerability of Fixed-Time Control of Signalized Intersections to Cyber-Tampering, Amin Ghafouri, Vanderbilt U	Invited Panel: Owner/Operators Addressing Risk & Resilience Moderators: John Walsh, FEMA & Cherrie Black, INL Panelists: <ul style="list-style-type: none">o Bruce Lundeen, AT&To Ralph Chiczewski City of Chicago, Dept. of Watero Reed Dring, Stickney Water, Metropolitan Water Reclamation District of Greater Chicagoo Cheryl Maletich, Commonwealth Edison Companyo Alicia Tate-Nadeau, Chicago Office of Emergency Mgmt & Communications
4:30	Adapting Level of Detail in User Interfaces for Cybersecurity Operations, Catherine Inibhunu, Uncharted S	Distributed Disturbance Rejection Control of Clustered Cyber-Physical Systems, Almuatazbellah Boker, Marshall U	Performance Evaluation of Secure Industrial Control System Design: A Railway Control System Case Study, Xenofon Koutsoukos, Vanderbilt U	
5:00	A Decision Engine for Configuration of Proactive Defenses - Challenges and Concepts, Michael Atighetchi, BBN			
5:30	Adjourn Meetings			
6:00	Networking Reception at Topgolf , 3211 Odyssey Ct			
7:30	Adjourn for Day			

* Best Papers



Resilience Week 2016 Track Plan

Thursday, August 18

Time	Cyber Resilience Track [Cypress] Chairs: Frank Ferrese, NAVSEA; Marco Carvalho, FIT	Research and Efforts in the Human Dimension [Aspen] Chairs: Phil Bennett, SNL; Ron Boring, INL; Roger Lew, UI; Nathan Lau, VT	Resilient Infrastructure Chairs: John Hummel, ANL; Paul Lewis, ANL; Frederic D. Petit, ANL	
			Track 1 [Redwood]	Track 2 [Rosewood]
8:00	Registration [Atrium]			
8:20	Announcements [Regency Ballroom]			
8:30	Keynote: Barbara Ciaramitaro, Professor, Walsh College	Track Overview: Phil Bennett, Ron Boring	Lightning Talks	Lightning Talks
9:00		Short Presentations		
9:30	Keynote: Alexander Dolpp, Director of eDrive Software Department at MBRNA			
10:00				
10:30	Morning Break [Atrium]			
11:00	Keynote: Kevin Staggs, Senior Engineering Fellow, Honeywell CSTC	Short Presentations	Lightning Talks	Lightning Talks
11:30				
12:00	Hosted Lunch with Plenary Speaker [Regency Ballroom] Brian Pierce, Director DARPA,I2O			
1:30	Keynote: Annabelle Lee, Senior Tech. Exec., EPRI	Short Presentations	Track Summary and Roundtable: Future Planning Facilitators: NSRCI Co-Chairs David Alderson and Cherrie Black	
2:00				
2:30	Keynote: Craig Miller, Chief Scientist, NRECA	Track Summary and Roundtable Introduction: Phil Bennett, Ron Boring		
3:00				
3:30	Afternoon Break [Atrium]			
4:00	Cyber Resilience R&D Perspectives Panel Panel Moderator: Chair(s)	Roundtable Discussion		
4:30				
5:00				